

Please amend the paragraph on page 46, lines 8–16 as follows:

A2
In the present embodiment, by installing the primary crusher 124, in addition to the effects obtained in embodiment 4, the solid in block can be fed to the high-pressure reactor. Further, when materials of low temperature brittleness are exposed to the primary crushing, a low temperature primary crusher 125 constituted of an adiabatic container 151 insulated by heat insulator, liquid nitrogen 152 and a primary crusher 124 can be effectively employed to crush the object.

Please amend the paragraph on page 54, lines 13–18 as follows:

A3
In the present embodiment, air fed by the pump 211 is used as the fluid to fill the gap 202 between the high-pressure reactor 200 and exterior vessel 203. However, the fluid is not restricted to this but can be any one that can maintain the pressure of the gap 202 appropriately. For instance, various kinds of inert gases can be used.

Please amend the paragraph on page 58, lines 4–12 as follows:

A4
In the water circulating line 205, water within the tank 207 is pressurized by the pump 211 to feed into the gap 202 through the duct 212. The pressure within the high-pressure reactor 200 and gap 202 are measured with the pressure sensors 231 and 232 and based on the measured values the pressure controller 215 controls the state of operation of the pump 211. Thereby, the pressure of the water within the gap 202 is held higher than that inside of the high-pressure reactor 200 by approximately 0.5 MPa to 5 MPa.

Please amend the paragraph on page 58, lines 13–19 as follows:

The water fed into the gap 202 is circulated through the duct 212 while being cooled by the cooling unit 206 of the water circulating line 205. Thereby, the